

Table WEB-1: Summary of Di-n-Hexyl Phthalate (DHP) Reproductive Toxicity Studies in Mice

Strain	Experimental Regimen	Number	Dose (mg DHP/kg bw/day)	Effects
CD-1 Mice	Fertility assessment through continuous breeding study.	37	0	37/37 pairs fertile
(1, 2)	DHP administered in feed at 0, 0.3, 0.6, or 1.2%.	17	380	14/17 pairs fertile ↓ Litters/pair (n=3.43 vs. 4.89 in control) ↓ Live pups/litter (n=3.43 vs. 12.29 in control) ↑ Pup mortality
	Breeding pairs housed together for 98 days; body weight was measured on 6 days, clinical signs, and food intake were recorded; litters were counted, sexed, weighed, and removed following birth.	19	800	1/19 pairs fertile
	In a crossover breeding study, high dose males and females were mated with control mice.	16	1,670	0/16 pairs fertile
	Breeding pairs were housed together for seven days or until a copulatory plug was observed.			Cross-over mating trial ↓ Mating rate in males. Females normal ↓ Fertility in exposed males x control females, 6 vs. 85% ↓ Fertility in exposed females x control males, 0 pairs fertile. ↓ Sperm count and motility in F ₀ males ↓ Testis, epididymis, and seminal vesicle to body weight ratio. ↑ Liver to body weight ratio in F ₀ males and females ↓ Body weight in F ₀ males and females
	Necropsy and a histopathological examination were conducted.			

Table WEB-2: Summary of Di-n-Hexyl Phthalate (DnHP) Developmental Toxicity Studies

Strain	Experimental Regimen	Number	Dose (mg DIDP/kg bw/day)	Effects	
				Maternal	Fetal
CD-1 Mice	Prenatal developmental toxicity screening study.	50	0		
(3)	Mice were gavaged with DnHP (undiluted) from gd 6-13. Dams were observed twice daily and weighed on gd 6, gd 17, and pnd 3. Pups were delivered and nursed until pd 3. Dams were killed on pd 3 and the uteri of females that did not deliver, were stained with ammonium sulfide to examine implantation sites. Developmental parameters evaluated in pups included body weight and survival.	48	9900	Not reported	No live pups at birth.

1. Lamb JC, IV. Reproductive effects of four phthalic acid esters in the mouse. Toxicol Appl Pharmacol 88:255-269(1987).
2. Reel JR, Lawton AD, Myers CB. Di-N-Hexyl Phthalate: Reproduction and Fertility Assessment in CD-1 Mice When Administered in the Feed. NTP-85-187. NTIS#PB85-249332: National Toxicology Program, National Institute of Environmental Health Sciences,, 1985.
3. Hardin BD, Schuler RL, Burg JR, Booth GM, Hazelden KP, MacKenzie KM, Piccirillo VJ, Smith KN. Evaluation of 60 chemicals in a preliminary developmental toxicity test. Teratogen Carcinogen Mutagen 7:29-48(1987).